

Figure 1

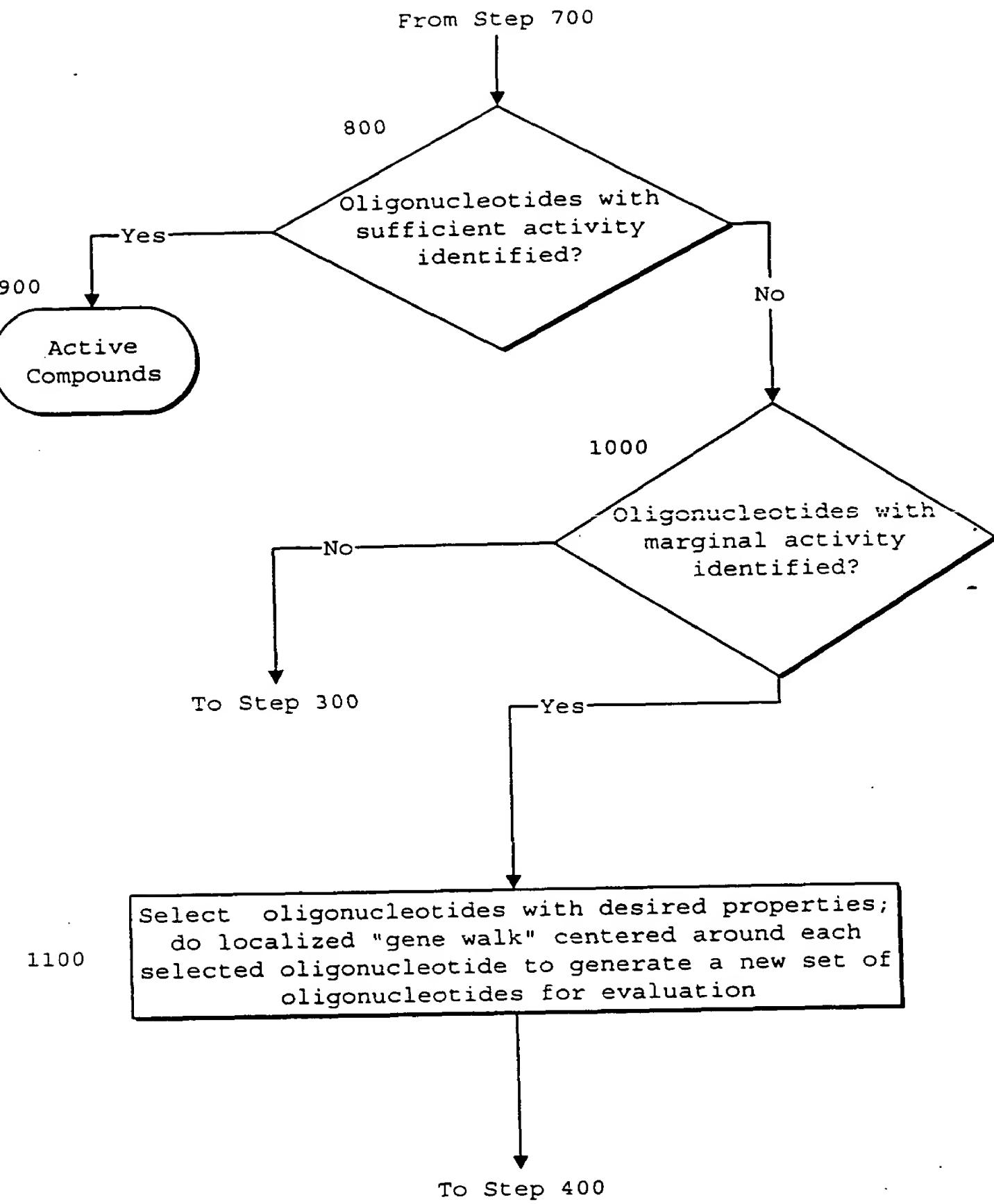


Figure 2

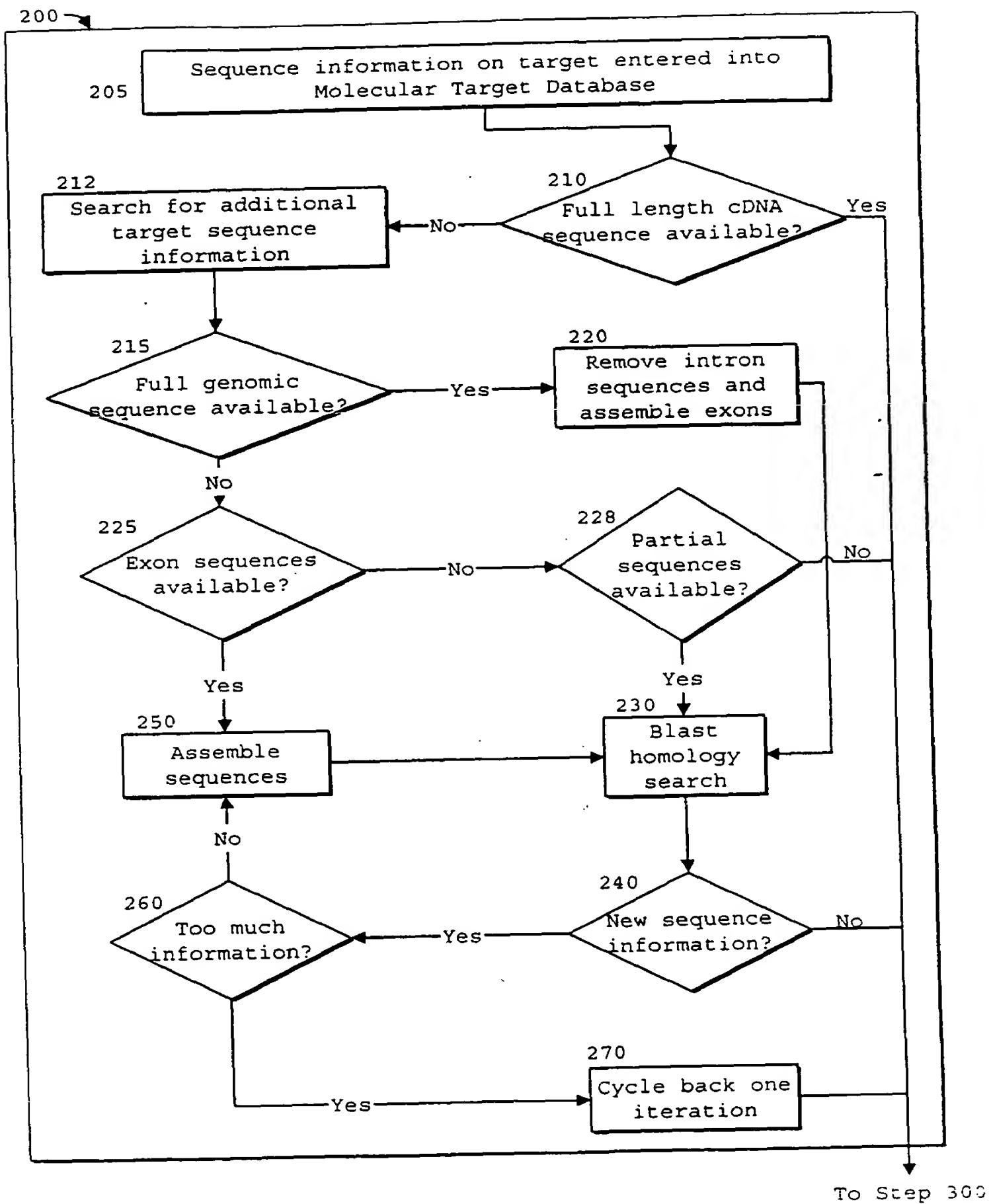


Figure 3

300 →

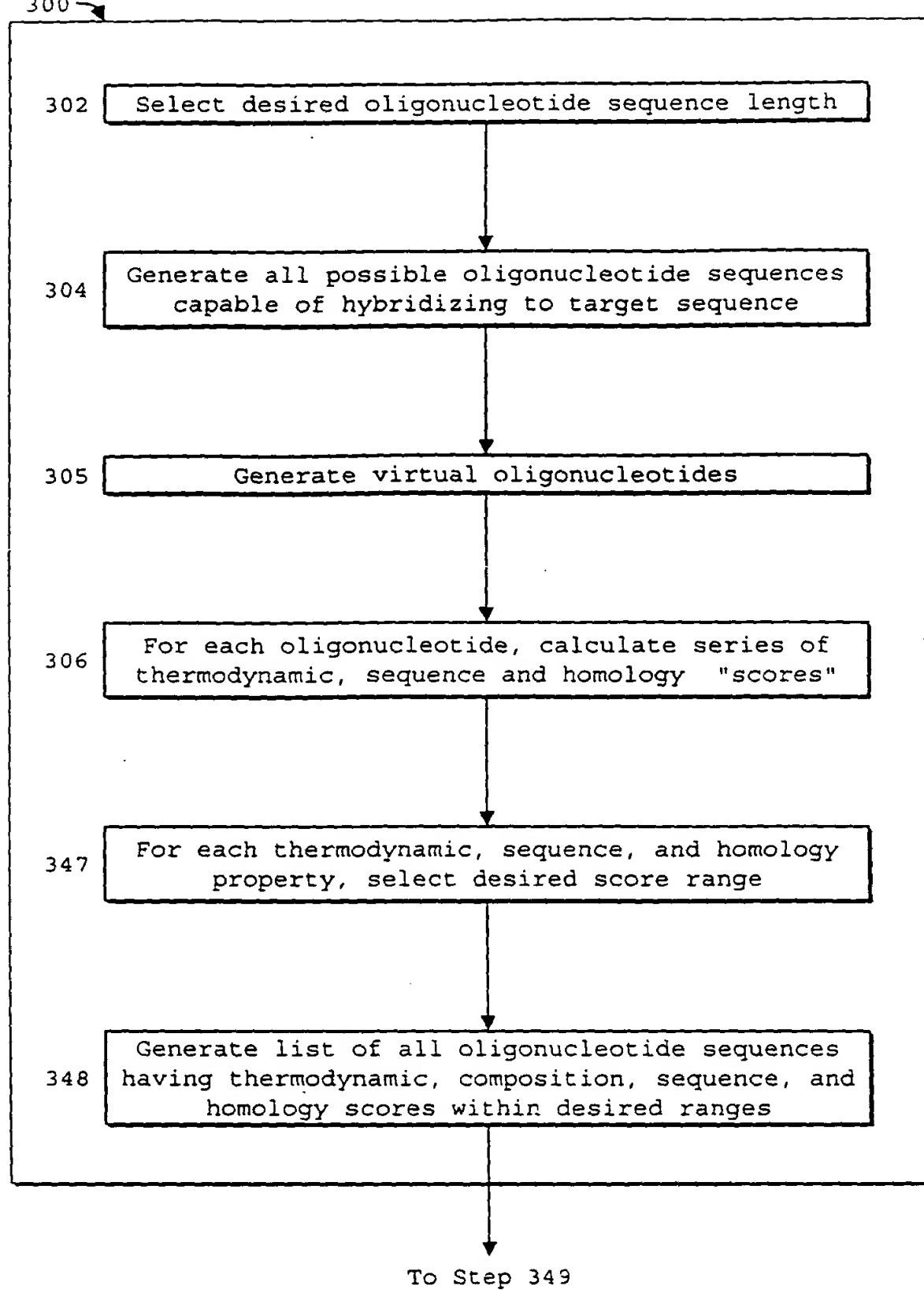


Figure 4

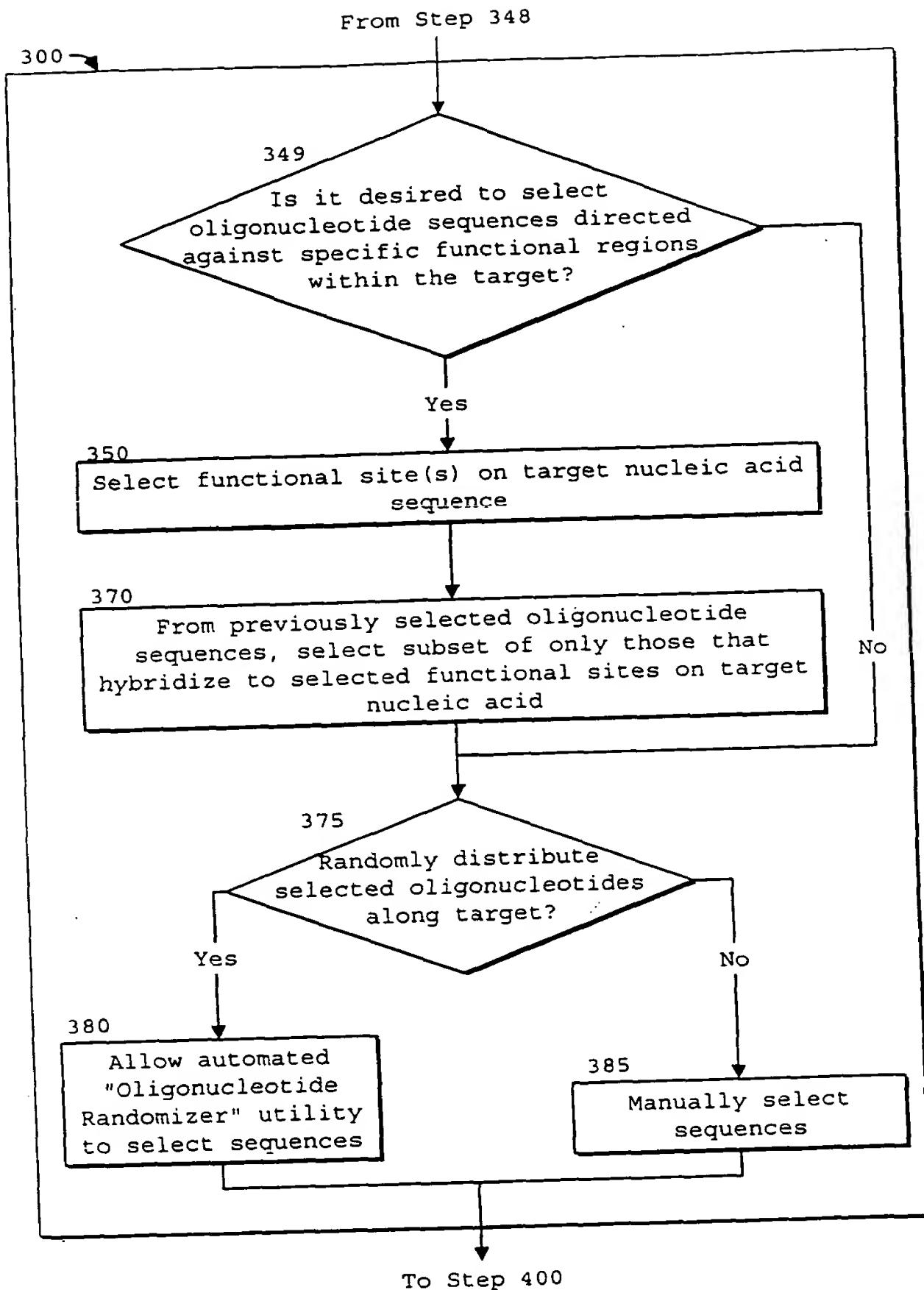
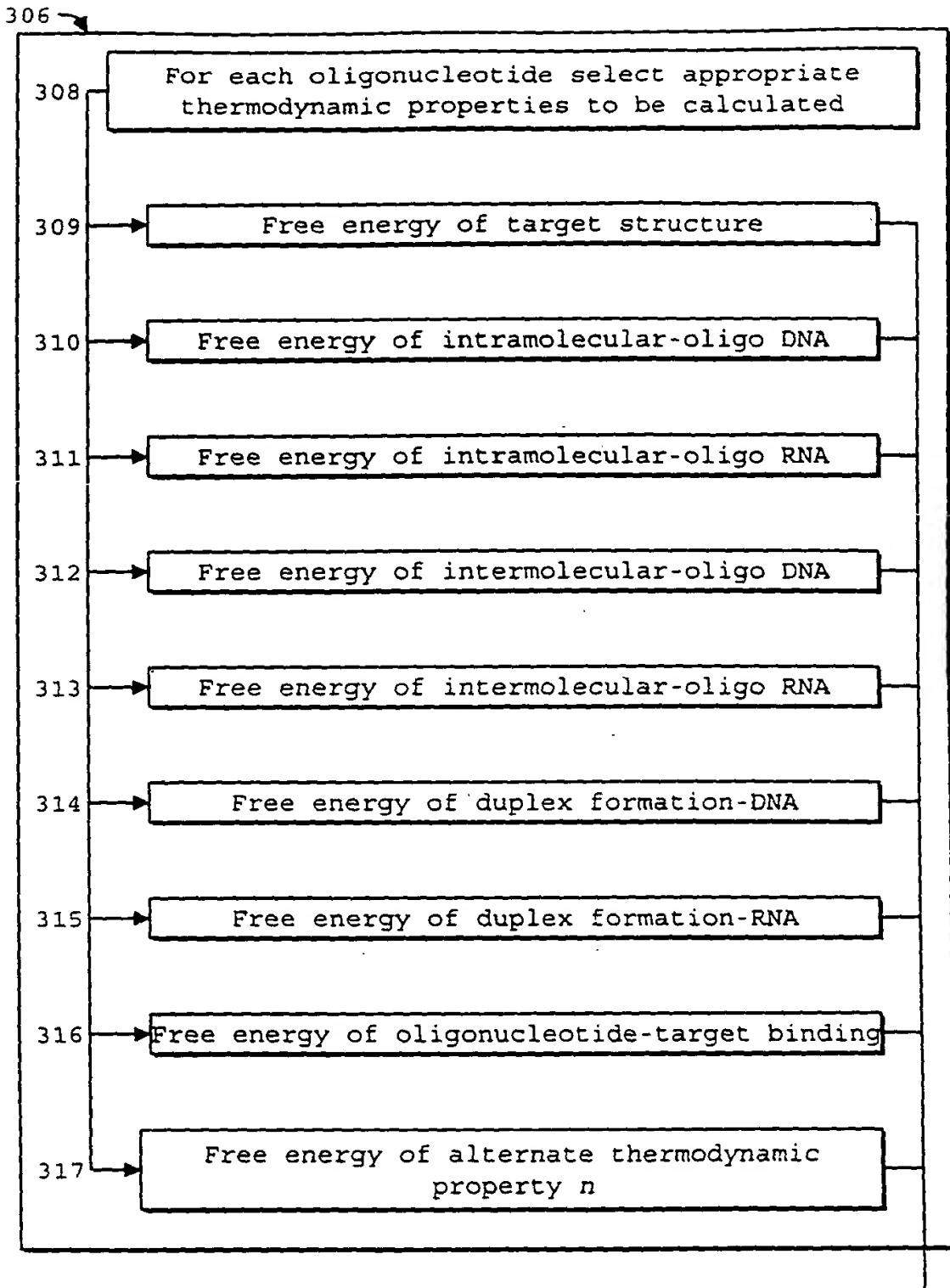


Figure 5

306 →



To connector at
step 324

Figure 6

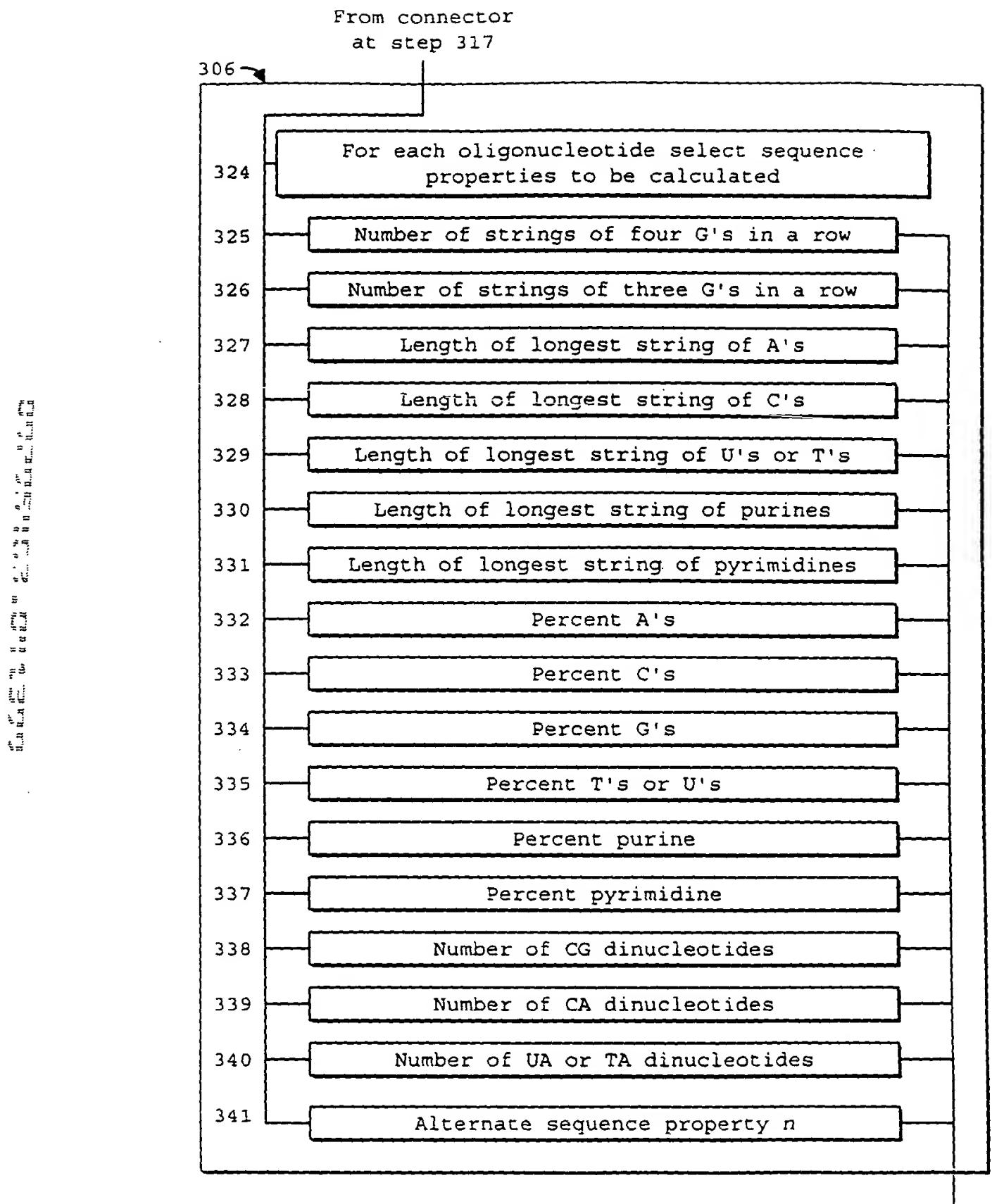


Figure 7

To connector at
step 342

From connector
at step 341

306

342

For each oligonucleotide select homology scores
to be calculated

343

Homology to nucleic acids encoding
protein isoforms of target

344

Homology to analogous target nucleic acid
in another species

345

Homology to splice variants of target
nucleic acid

346

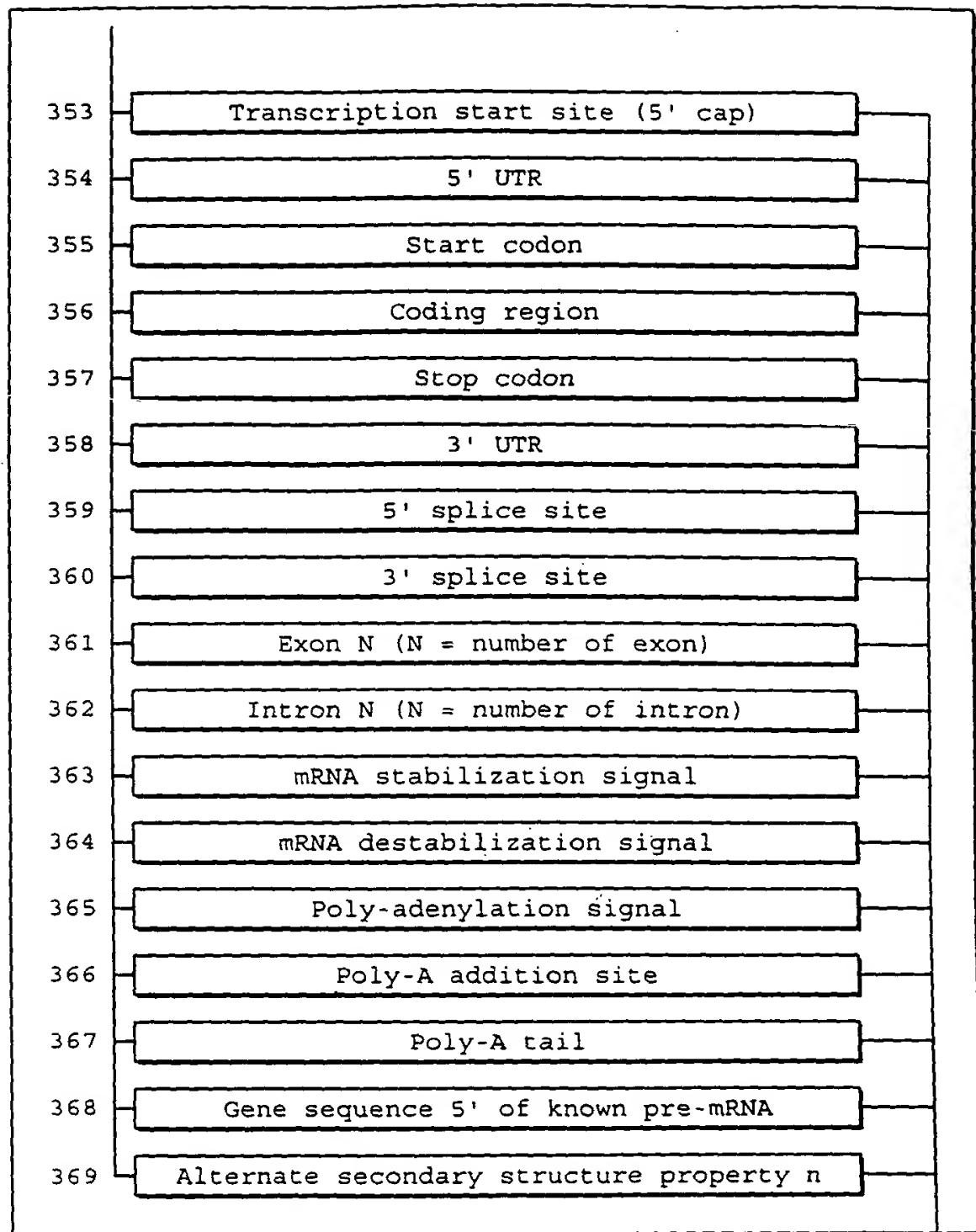
Alternate homology property n

To Step 347

Figure 8

.....
.....
.....
.....
.....

350 →



↓ To Step 370

Figure 9

.....
.....
.....
.....
.....

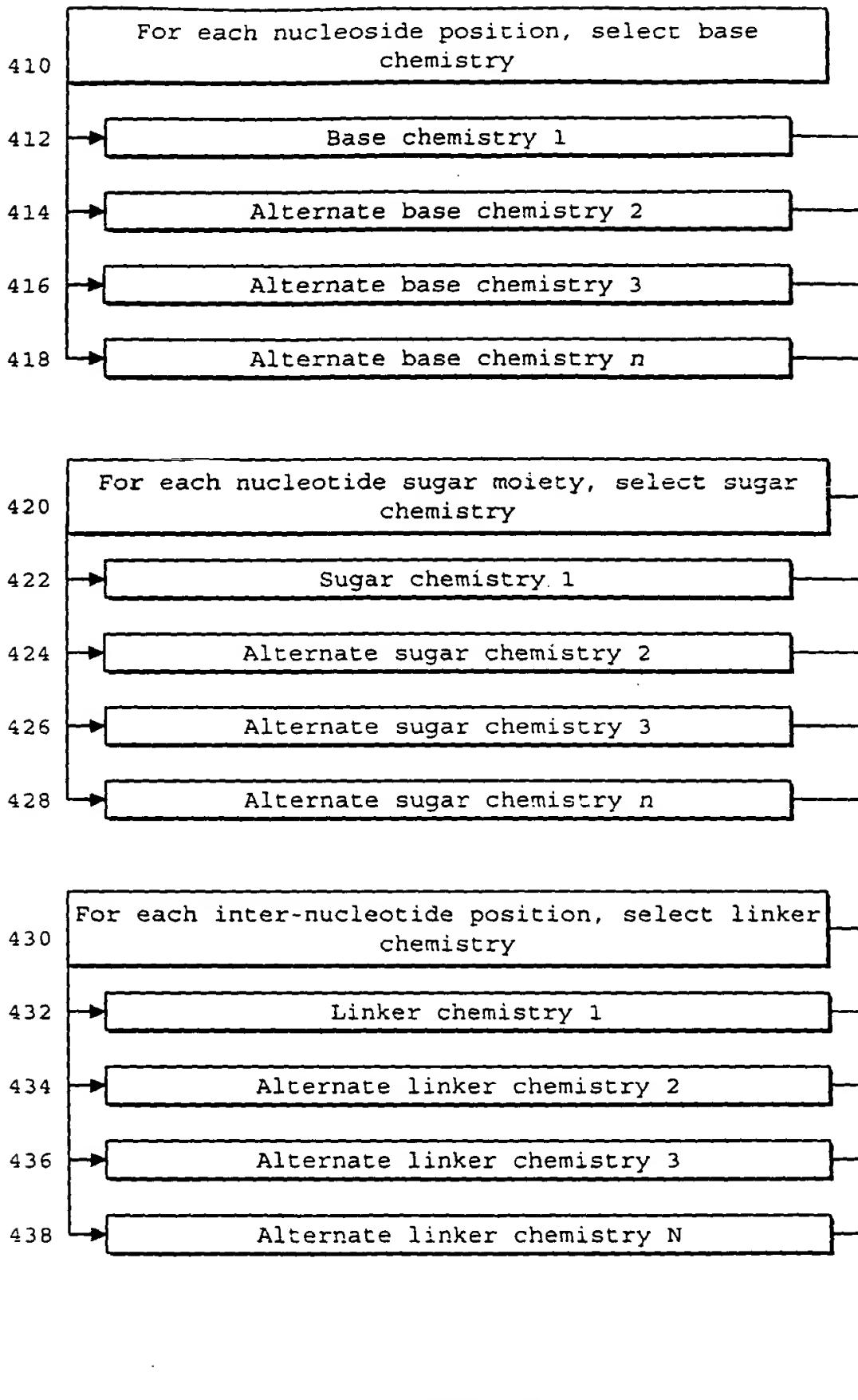


Figure 10

To Step 440

From Steps
432, 434,
436, or 438

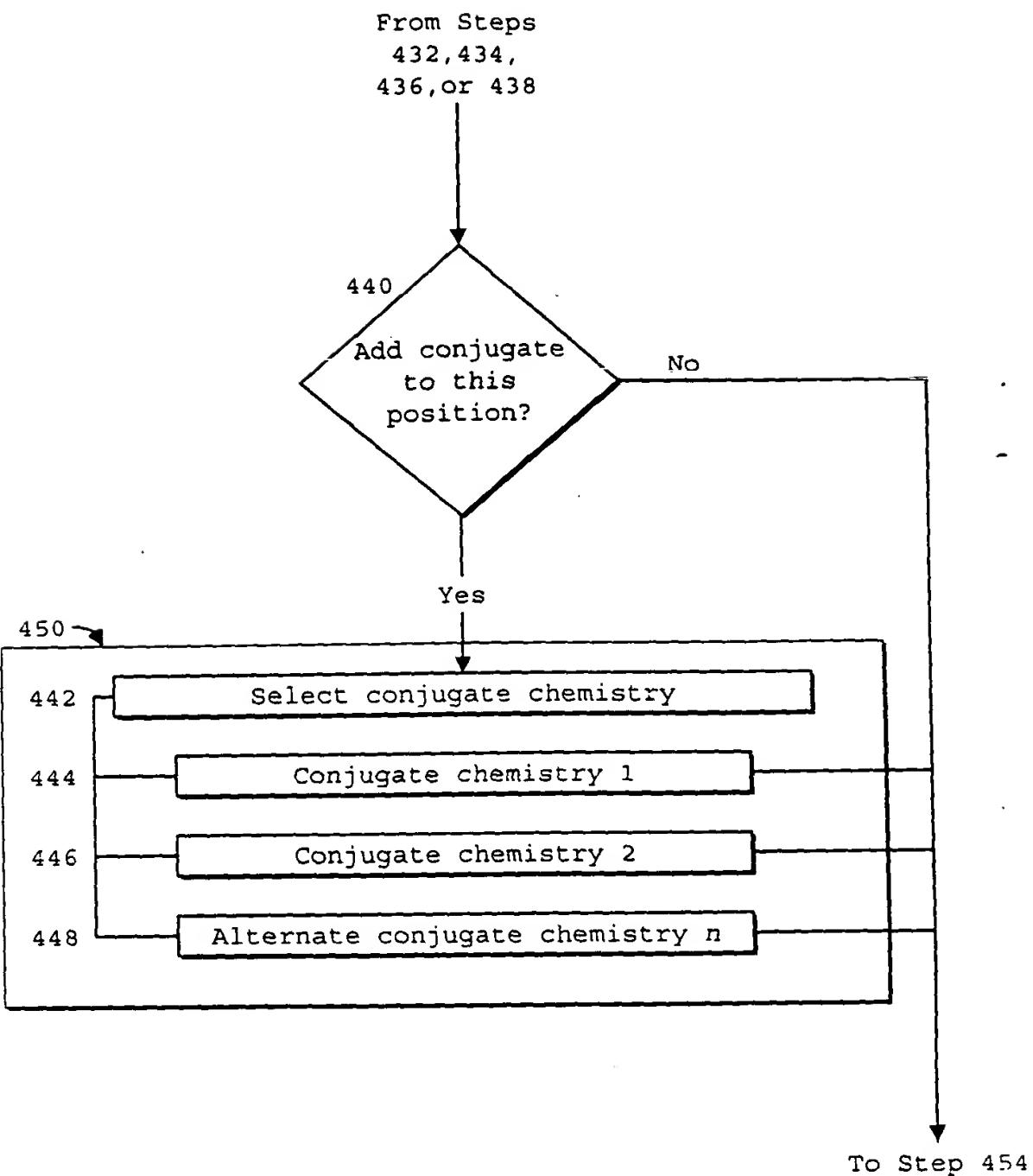


Figure 11

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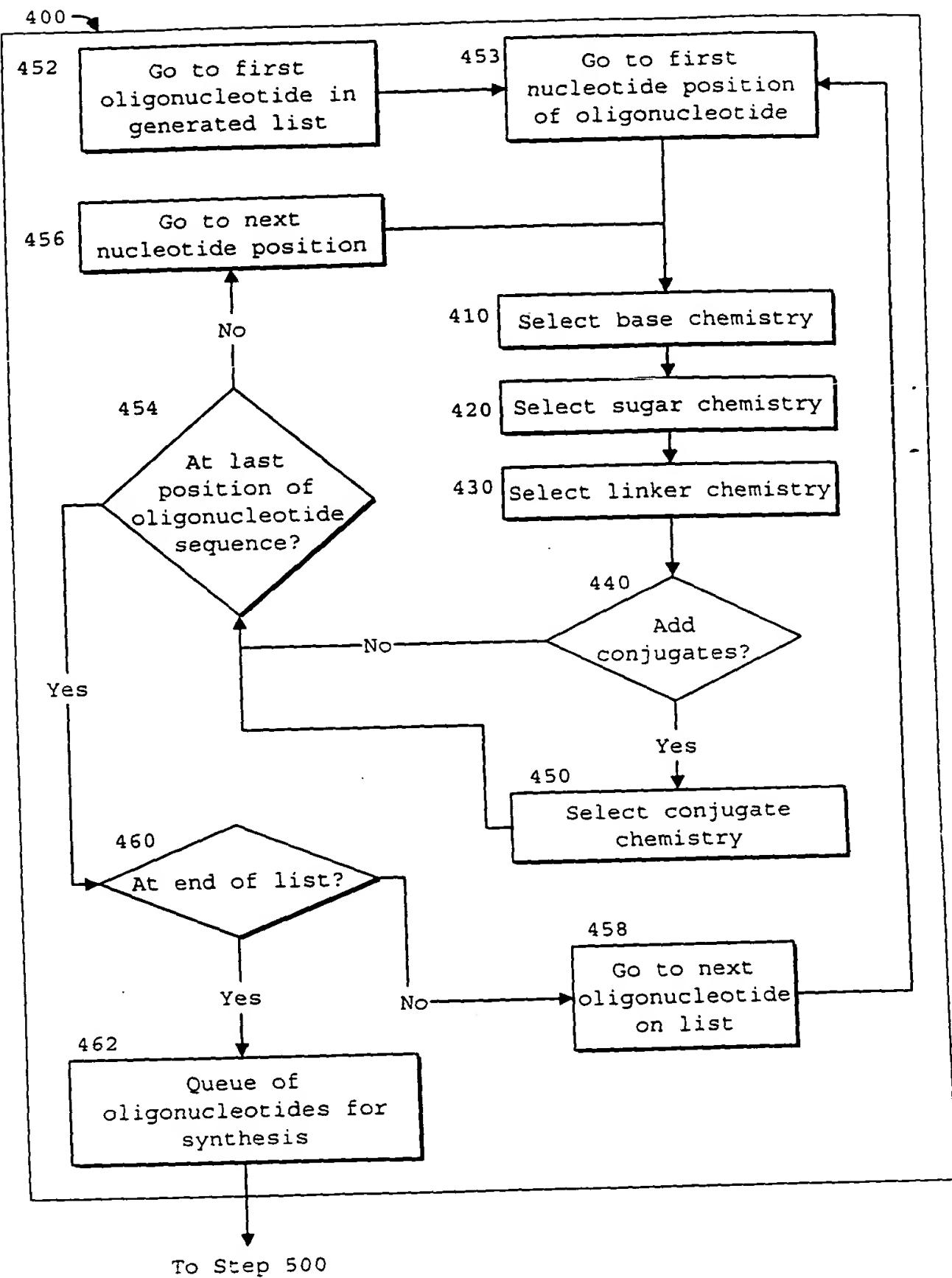


Figure 12

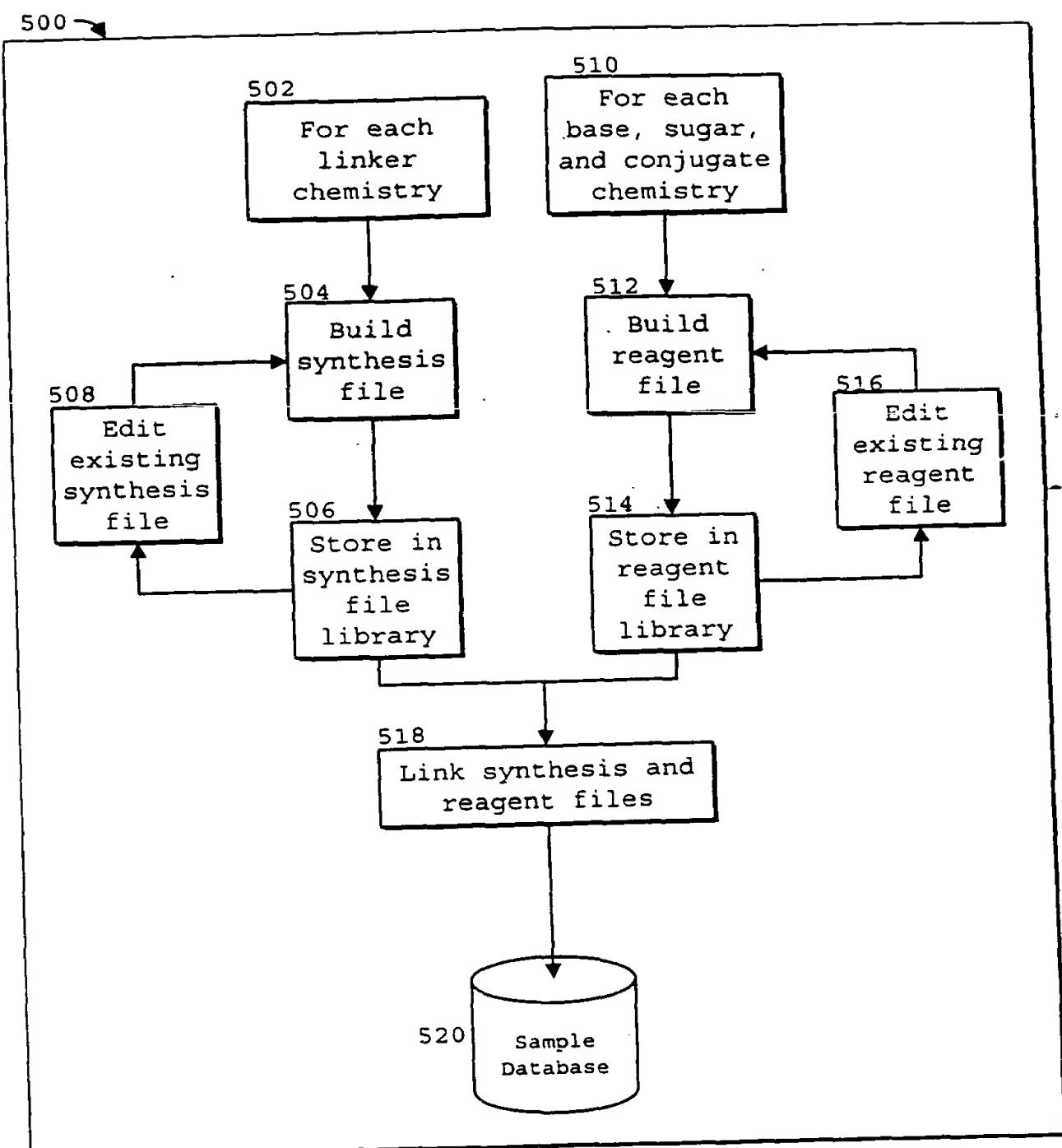


Figure 13

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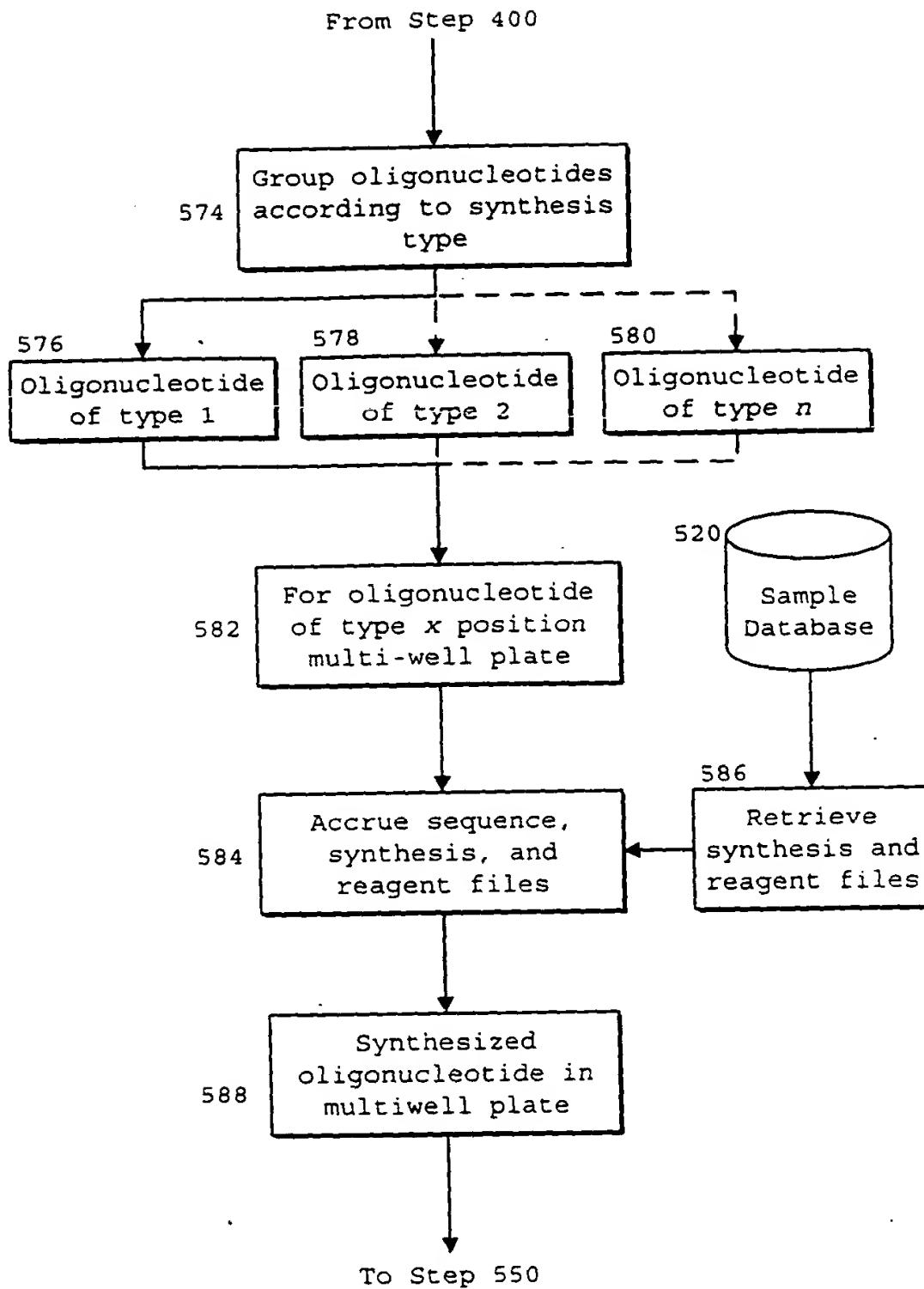


Figure 14

Flowchart illustrating the quality control analysis of oligonucleotides.

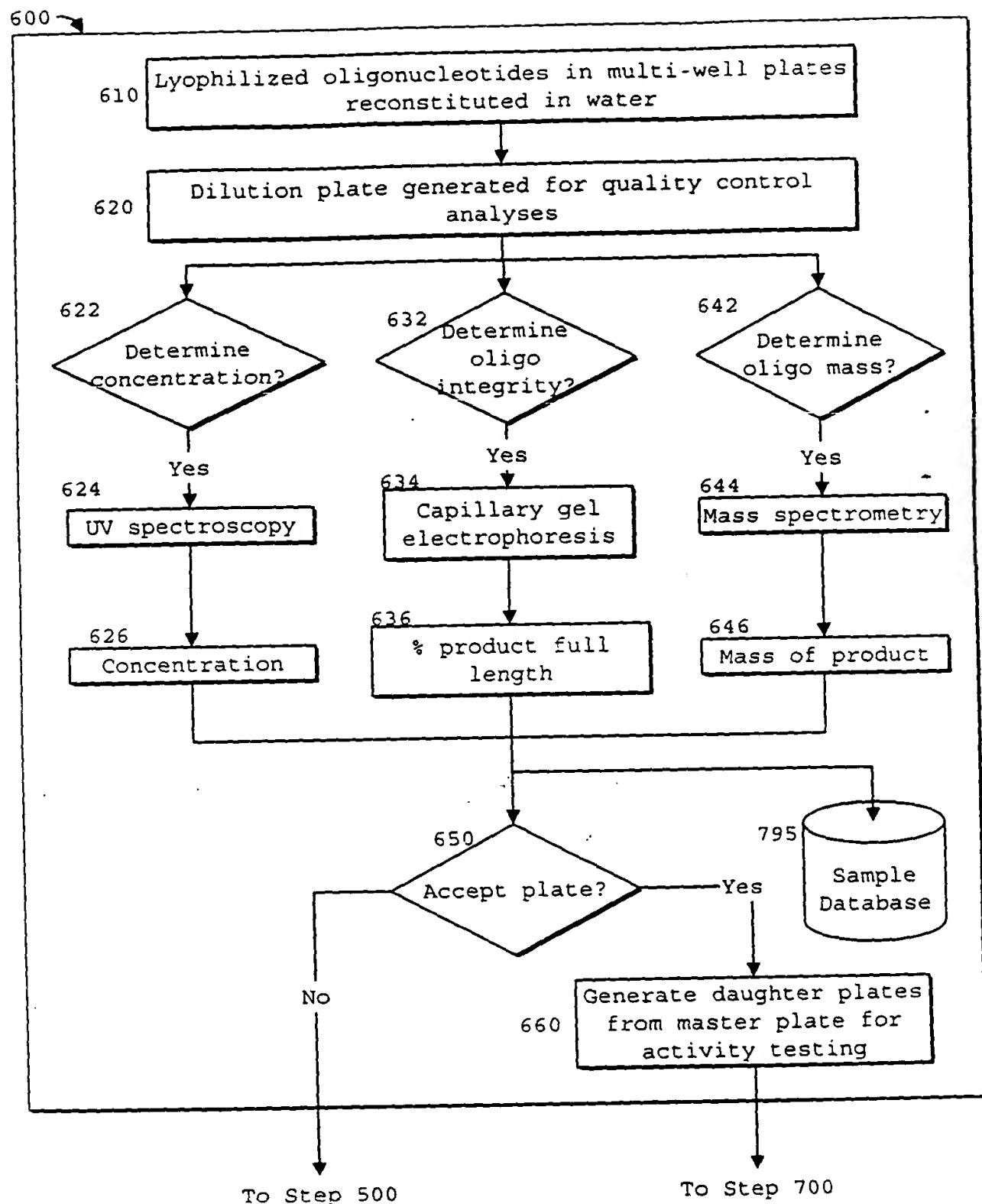


Figure 15

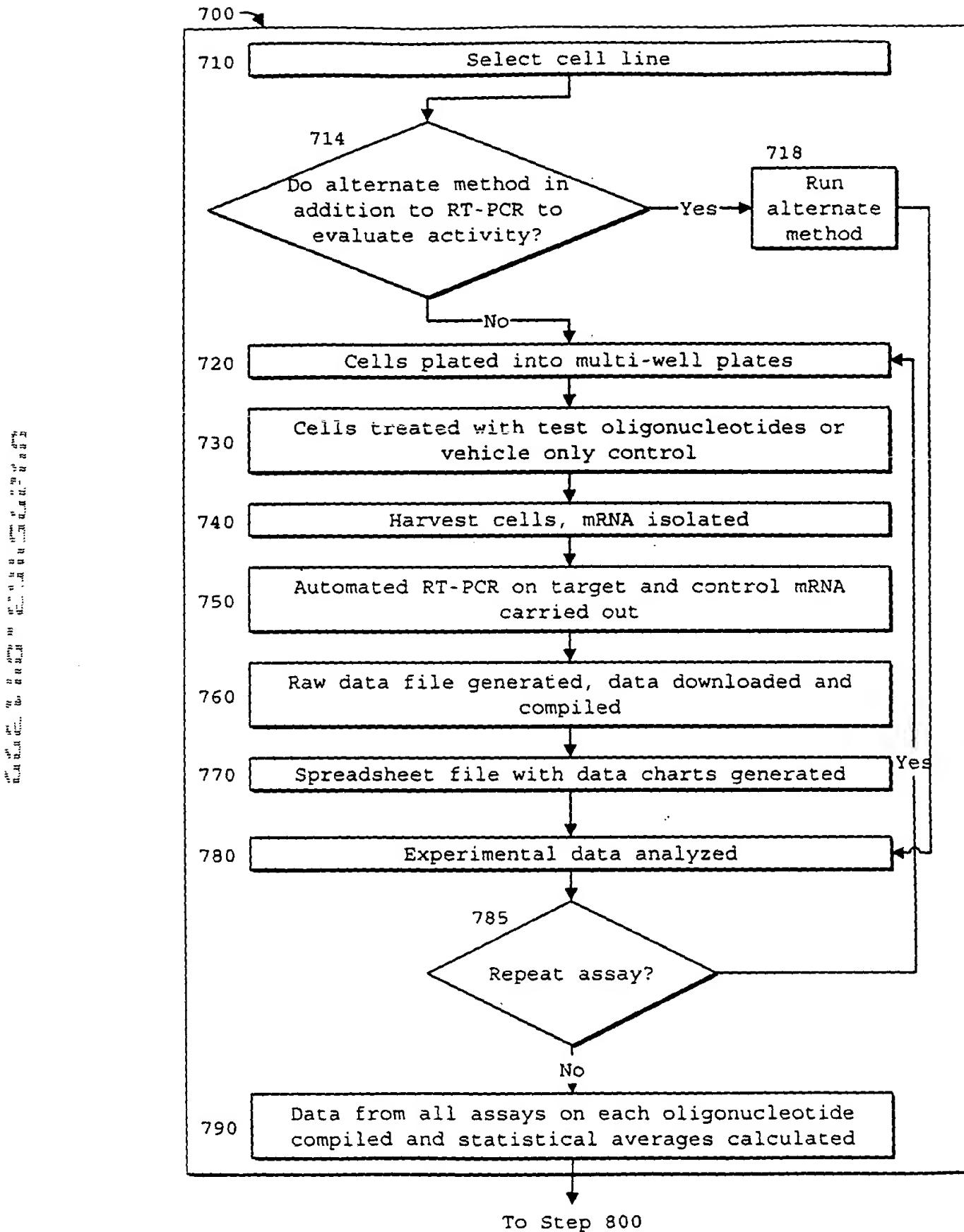


Figure 16

000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000
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000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000
000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000

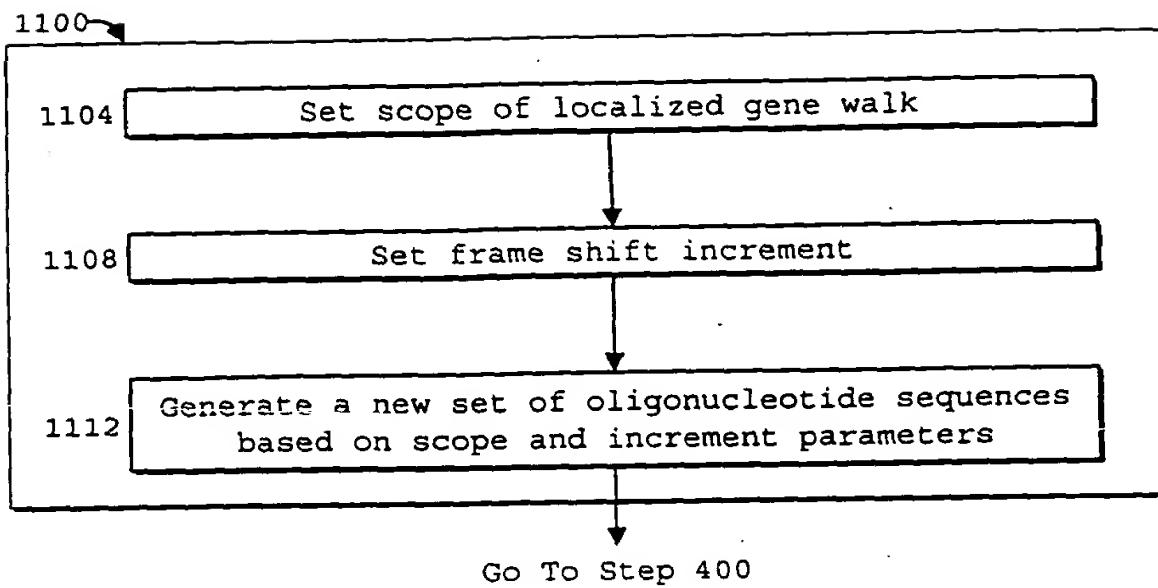


Figure 17

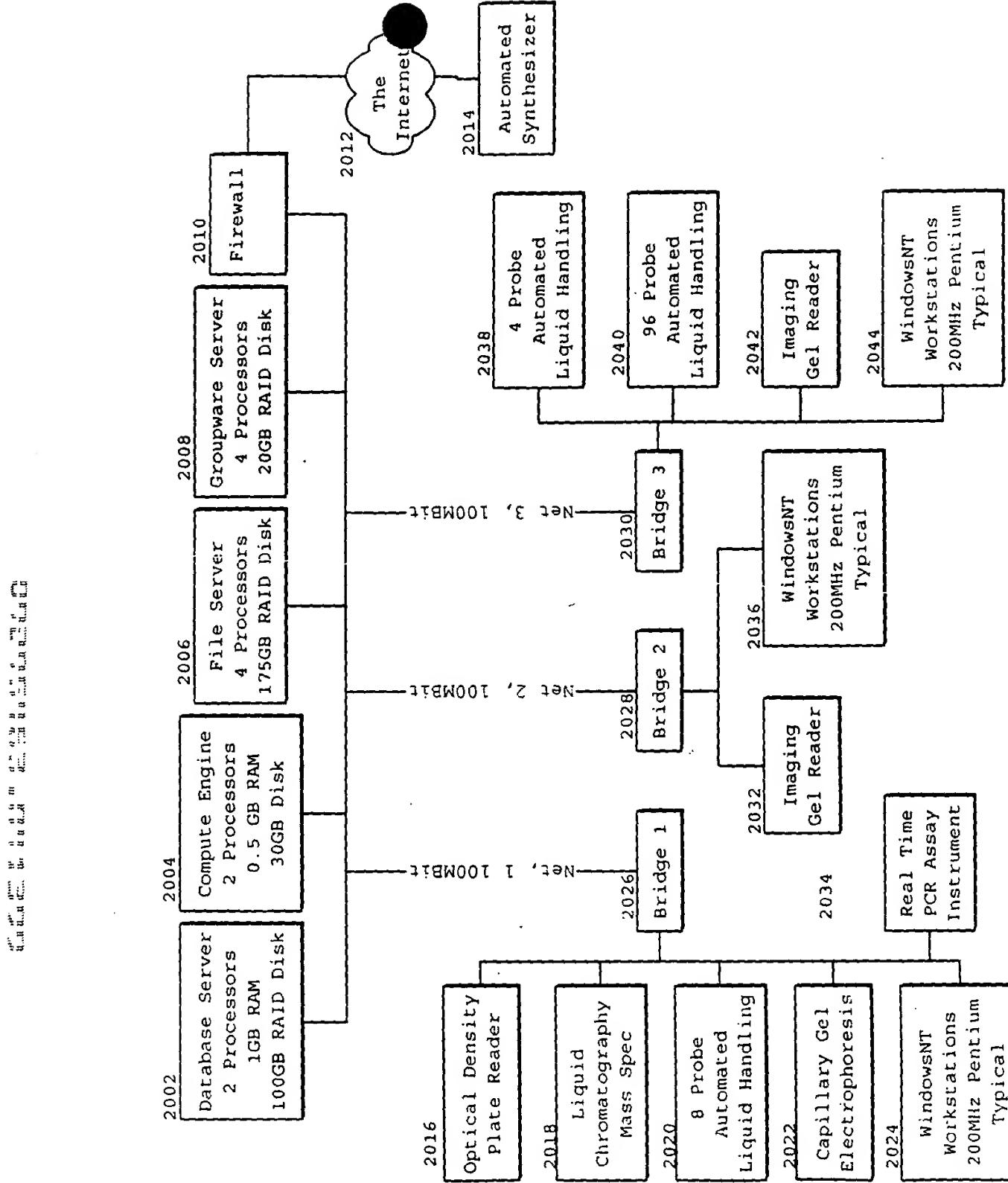


Figure 18

Figure 19: A detailed diagram of the Oligo Synthesis System's data model.

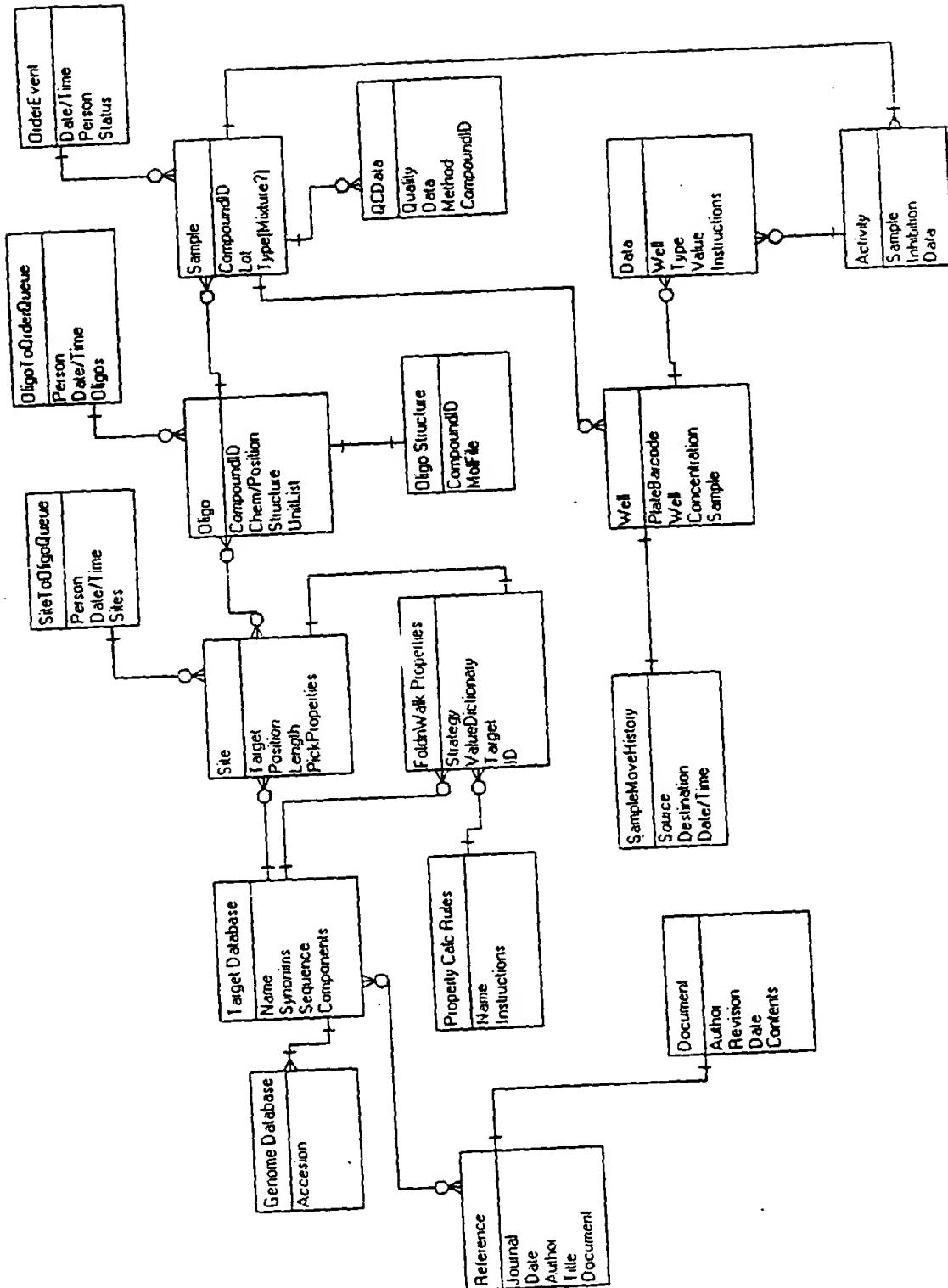


Figure 19

2202 Select Target
2204 Fold and Walk Target Sequence to Calculate Picking Parameters
2206 Launch "Site Picker"
2208 Select Target and Pre-calculated Fold and Walk Data
2210 Are Derived Properties Required?
2212 Define Derived Properties
2214 Select Property to Graph
2216 Select Property Threshold Value to Eliminate Sites
2218 Eliminate by More Properties?
2220 Select Property to Graph
2222 Manual or Automatic?
2224 Select n Best Peaks
2226 Peak Find Mode?
2228 Click on Sequence Display to Select Site
2230 Compute Nearness to Picked Neighbors for all Sites
2232 Check Number of Sites
2234 Click on Sequence Region to Remove Sites
2236 Click on Graph Region to Select Site at Nearest Peak
2238 Register Sites by Username and Date to DB

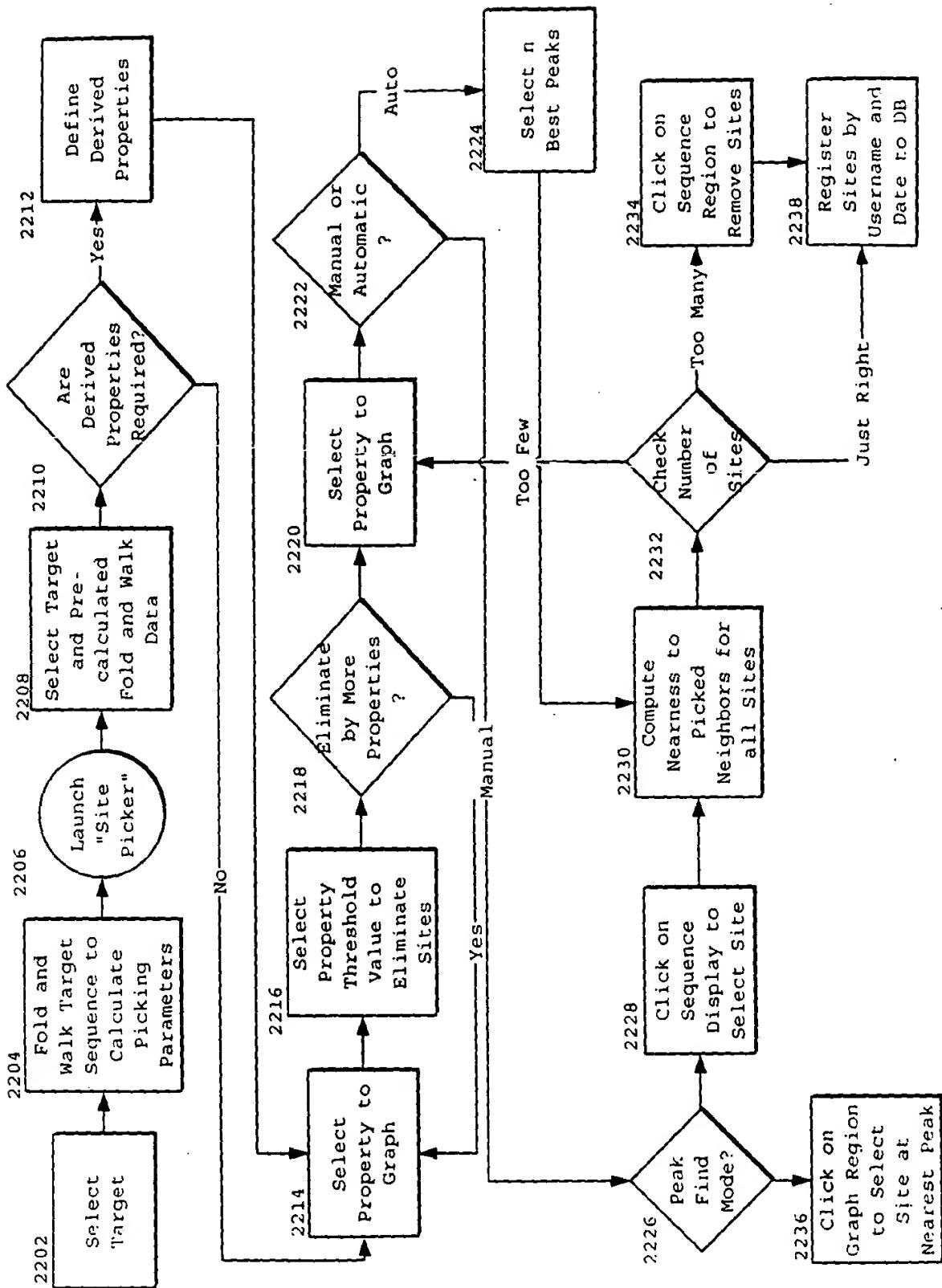
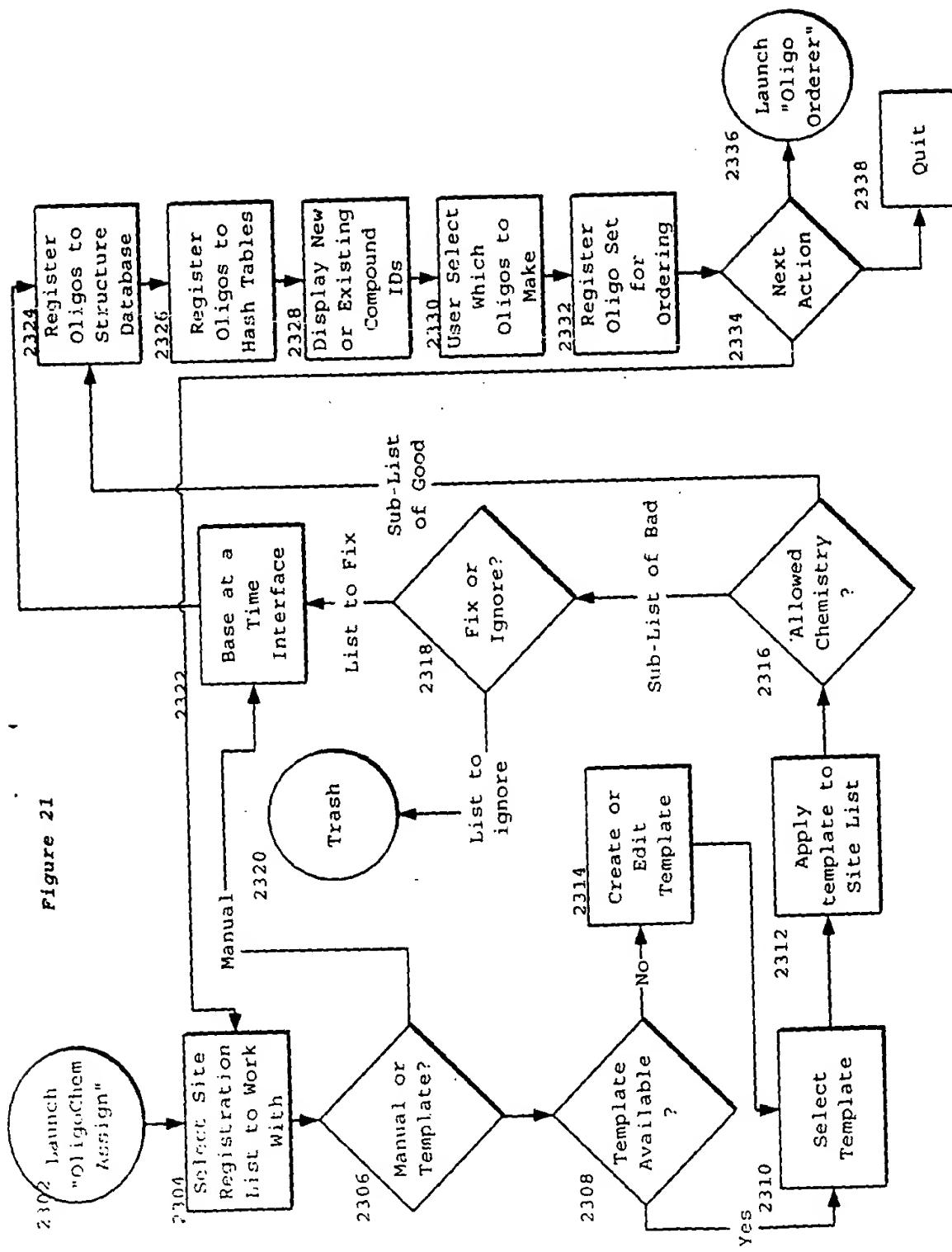


Figure 20

Figure 21



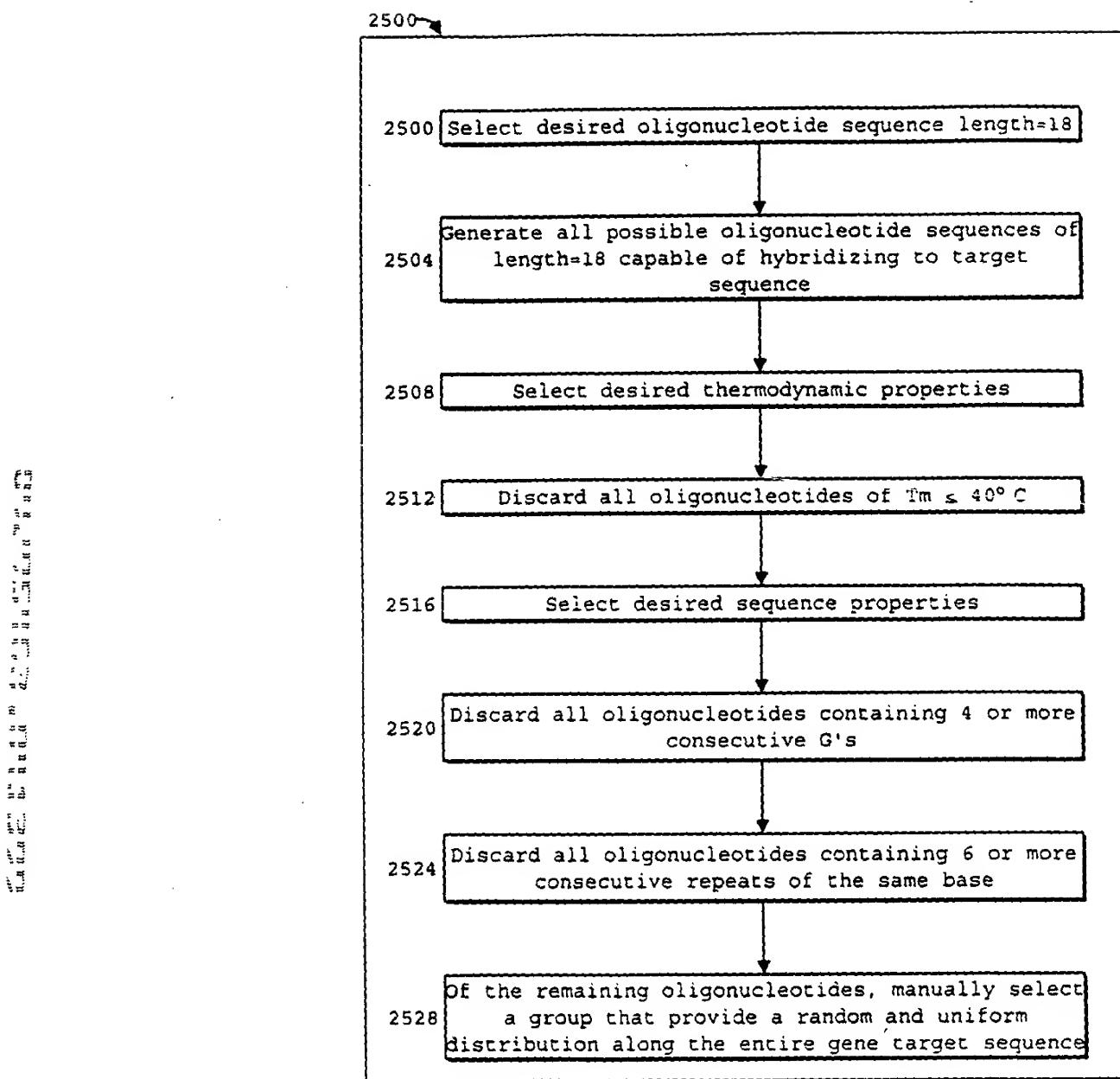


Figure 22

Reagent
Isolators

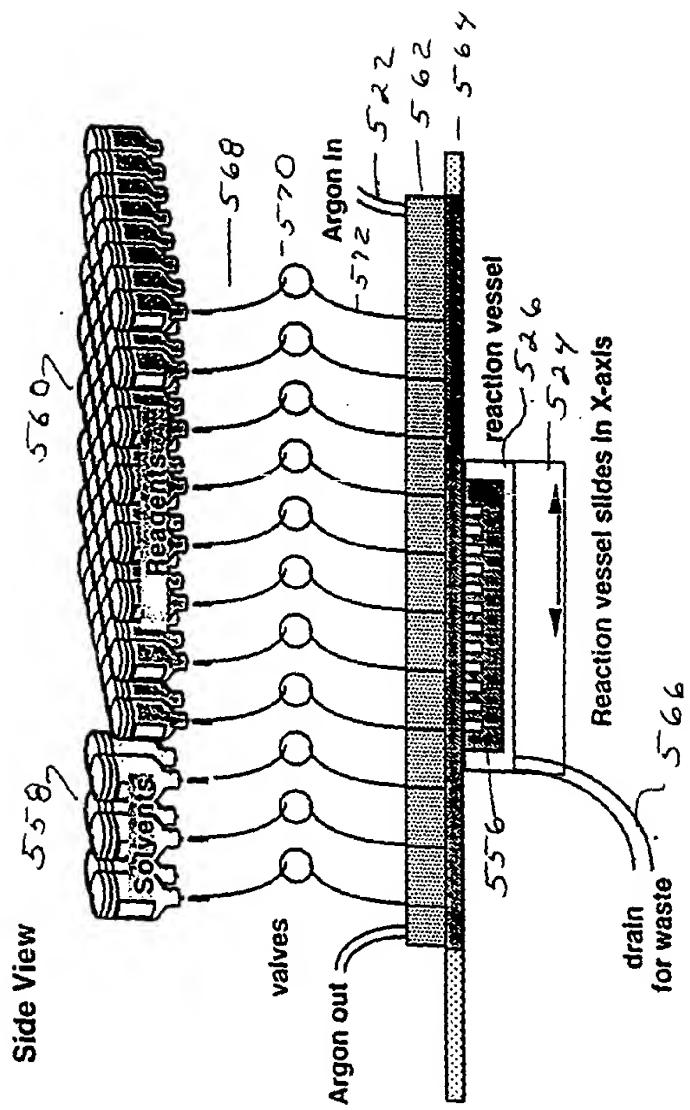


Figure 23

Plate assembly slides in X-Axis

Top View

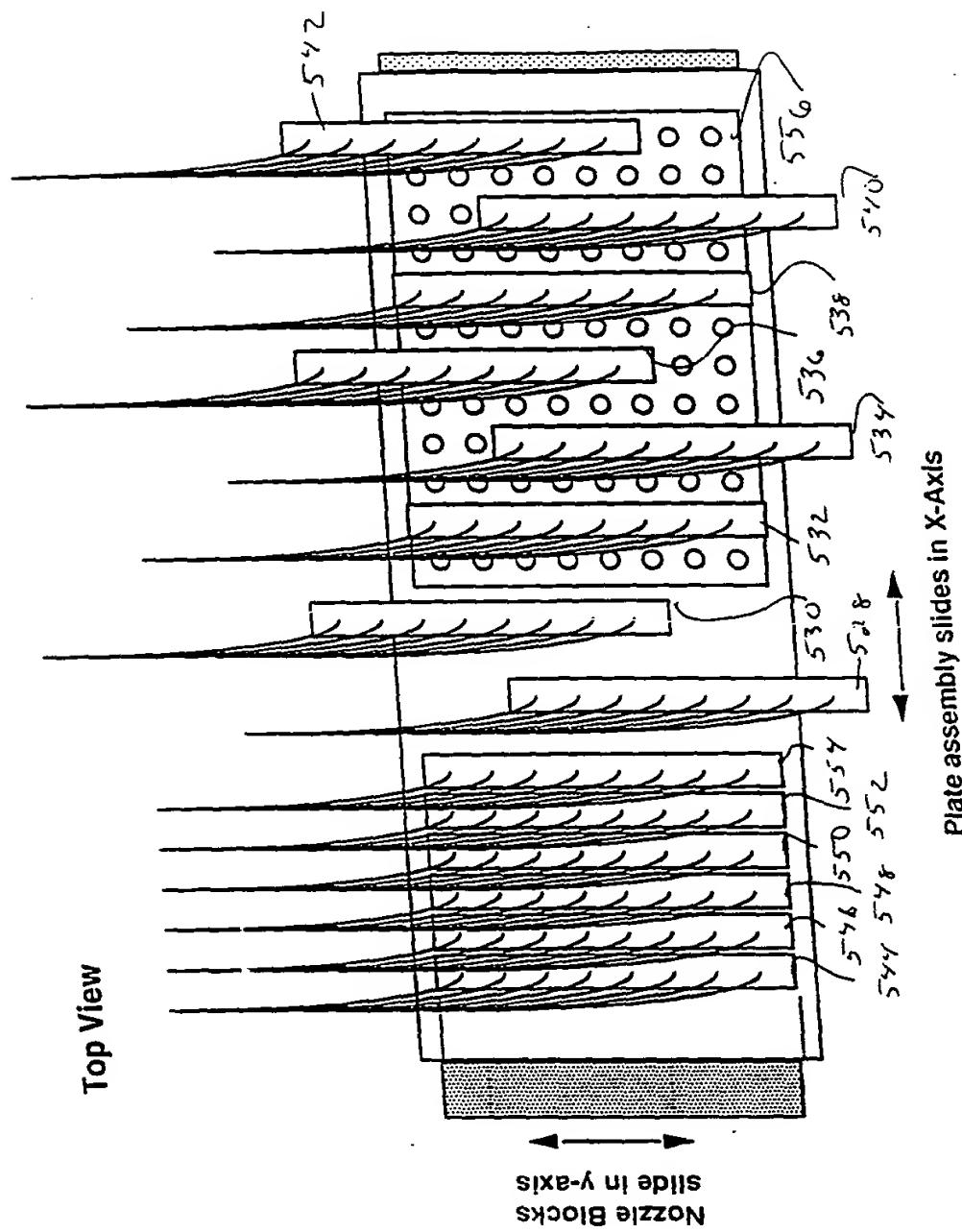


Plate assembly slides in X-Axis

Figure 24